Fifty-Fourth Meeting

of the

American Electrochemical Society

Charleston-Huntington, W.Va.

Sept. 20, 21, 22

1928

LOCAL COMMITTEE

B. H. Jacobson, *Chairman*
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J. L. E. Cheetham
Simon Galperin
W. A. Mudge
A. M. Pitcher
A. S. Shoffstall
James C. Smith
W. T. Slicer

PATRONS

Appalachian Electric Power Co.
Barium Reduction Corporation.
Charleston Chamber of Commerce.
E. C. Klipstein & Sons Co.
Sharples Solvents Corporation.
Westvaco Chlorine Products Corporation.

GENERAL INFORMATION

Hotel Information

(Eastern Standard Time Used in This Program)

HEADQUARTERS and REGISTRATION BUREAU will be at the Hotel Kanawha, Charleston, W. Va. It is recommended that members write at once for reservations. Rates at this and other hotels are given on the last page of this program.

REGISTRATION will begin at 7:30 P. M., Wednesday, September 19th, on the mezzanine floor of the Hotel Kanawha. The registrar will receive arriving members and guests, distribute badges and programs, and give other information.

Guests should be introduced by members and when registered may attend the sessions and receive such other courtesies as may be extended to them by the local committee or the officers of the society. Local members of other scientific societies, such as the American Chemical Society, the American Inst. of Mining and Metallurgical Engineers, and the American Electroplaters' Society, are invited to register as guests without formal introduction.

Places of Meeting

All scientific and technical sessions will be held in the Hotel Kanawha. The social entertainment on Thursday evening will likewise be at the Hotel Kanawha. The entertainment on Friday evening will be at the Edgewood Country Club.

Round Table Discussion

The informal Round Table Discussion on "Electrometallurgy of Nickel Alloys" will be held on Thursday, September 20th, at 12:00 noon, in the private dining room of the Hotel Kanawha. Mr. Chas. A. Styer, of New York, will be in charge of this discussion. The luncheon will be $1.50 per cover, payable at the table.

Typewritten Discussion

Members wishing to present written discussion on any of the scientific and technical papers listed in this program are requested to submit three copies of each to the American Electrochemical Society, Columbia University, New York City, not later than September 17th.

Visits to Industrial Plants

Busses will be provided to take groups of members to various plants, listed below, on Thursday and Friday afternoons. Tickets for Thursday and Friday plant visits, $4.00 per person, should be obtained in advance at the Registrar's desk.

Appalachian Electric Power Co. (Steam Plant).

Barium Reduction Corporation (Barium Products).

International Nickel Company (Smelting, Rolling, Plating).

Kelly Axe Mfg. Company (Detailed Mfg. Process).

E. C. Klipstein and Sons Co. (Dyestuffs).

Pure Oil Company (High Grade Oils).

Sharples Solvents (Amyl Alcohol and Acetate).

West Virginia Brick Company (Red and Fire Brick).

Westvaco Chlorine Products Corporarion (Alkali, Chlorine, etc.).

Members and guests desirous of visiting plants other than those listed above should see Mr. Jacobson, chairman of the local committee. All factories are open Saturday afternoon.

Social Features

On Thursday evening, September 20th, at 6:45, the Society and its friends, including the ladies, will be the guests of the Charleston Chamber of Commerce. There will be an informal supper and smoker in the main dining room of the Hotel Kanawha.

On Friday evening busses will leave the Hotel Kanawha promptly at 7:30 o'clock, arriving at the Edgewood Country Club at about 8:00 P. M. Here the local committee has arranged for a complimentary "Old Fashioned Southern Meeting," Music, Dancing and Refreshments.

Entertainment for Ladies

The ladies will be entertained by the local ladies at tea, bridge, luncheon and sight-seeing trips.

Thursday evening 6:45. Informal supper and smoker, main dining room, Hotel Kanawha.

Friday 1:15 P.M. Leave Hotel Kanawha for railroad station, trip to Huntington.

Friday 8:00 P.M. Complimentary entertainment at the Edgewood Country Club; Music, Dancing and Refreshments.

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TECHNICAL PROGRAM

(Eastern Standard Time)

Wednesday, September 19, 1928

7:30 P.M. Registration begins on the mezzanine floor, Hotel Kanawha.

Thursday, September 20, 1928

9:00 A.M. Session on "Chemical Reactions at 1000° C. and Above," President Paul J. Kruesi, presiding.

(4) "Thermoelectric Measurement of Temperatures above 1500° C." H. L. Watson and H. Abrams, of the General Electric Co., Schnectady, N. Y.

(18) "The High Frequency Induction Furnace for Chemical Preparations above 1000° C." C. N. Schuette and Chas. G. Maier, of the Bureau of Mines, Berkeley, Cal.

(23) "The Production and Use of Beryllium." Kurt Illig, of the Siemens & Halske Co., Berlin.

(17) "The Reduction of Barium Carbonate by Aluminum." Erwin F. Lindhorst and Herman Schlundt, of the University of Missouri.

(13) "The Vapor Pressure of Barium Oxide." M. deKay Thompson and W. G. Armstrong, of the Mass. Institute of Technology.

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Thursday (Continued)

(10) "The Equilibrium of the System: Barium Carbide, Barium Oxide, Carbon and Carbon Monoxide." M. deKay Thompson, of the Mass. Institute of Technology.

12:00 Noon. Informal Luncheon and Round Table Discussion, Hotel Kanawha (see page 2 of this program booklet).

2:00 P.M. Visits to Industrial Plants (see page 3 of this program booklet). Busses leave Hotel Kanawha promptly at 2 o'clock.

5:30 P.M. Meeting of the Board of Directors, Hotel Kanawha.

6:45 P.M. Complimentary Supper, main dining room, Hotel Kanawha. Tendered by Charleston Chamber of Commerce.

Friday, September 21, 1928

9:00 A.M. Scientific Session.

(8) "Electrochemistry of the Proteins." David M. Greenberg, of the Medical School, University of California.

(6) "Cathodic Halogen." Robert H. Clark and R. H. Ball, of the University of British Columbia.

NOTES

Friday (Continued)

(15) "Conductivity of Organic Solvents." D. B. Keys, Sherlock Swann, Jr., and H. W. Hoerr, of the University of Illinois.

(11) "A Voltaic Hydrogen Generator." W. Cecil Gardiner and Geo. A. Hulett, of Princeton University.

(7) "The Effect of Absorbed Gas on the Contact Resistance of Carbon." Robert H. Wright and Melville J. Marshall, of the University of British Columbia.

(24) "The Nature of Gas-Metal Electrodes." Sidney J. French and Louis Kahlenberg, of the University of Wisconsin.

(16) "The Use of Misch Metal as an Electrolytic Rectifier." H. C. Kremers and D. C. Thomas, of the University of Illinois.

(21) "Maintenance of the Volt." Geo. W. Vinal, of the Bureau of Standards, Washington, D. C.

(22) "Corrosion in the Tin Can." Roger H. Lueck and Harold T. Blair, of the American Can Co., San Francisco.

12:00 Noon. Informal Luncheon, Hotel Kanawha.

NOTES

Friday (Continued)

1:15 P.M. Busses leave Hotel Kanawha for railroad station. Trip to Huntington and visit to plant of the International Nickel Company; smelting, rolling and plating operations.

5:15 P.M. Leave Huntington for Charleston.

6:30 P.M. Informal Dinner (dutch treat), Hotel Kanawha.

7:30 P.M. Busses leave Hotel Kanawha for Edgewood Country Club.

8:00 P.M. "Old Fashioned Southern Meeting," Edgewood Country Club; complimentary entertainment and refreshments.

Saturday, September 22, 1928

9:00 A.M. Technical Session on Electrodeposition, Dr. Duncan MacRae, presiding.

(2) "Electrodeposition of Tellurium." F. C. Mathers and H. L. Turner, of the University of Indiana.

(9) "Polarization and Resistivity in Nickel Plating Solutions." Roy L. Dorrance and W. C. Gardiner, of Queen's University.

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Saturday (Continued)

(14) "The Co-Deposition of Copper and Graphite." Colin G. Fink and James D. Prince, of Columbia University.

(1) "Duriron as an Insoluble Anode for Gold Cyanide Solutions." M. deKay Thompson, of the Mass. Inst. of Technology.

(19) "Steel Anodes for Chromium Plating." E. M. Baker and E. E. Pettibone, of the University of Michigan.

(12) "Porosity of Electrodeposited Chromium." E. M. Baker and A. M. Rente, of the University of Michigan.

(3) "Electrometric Determination of Peroxide of Hydrogen and the Associated Peracids." A. Rius, of the Industrial School of Zaragossa, Spain.

(5) "Electrometric Titration of Hypochlorite and Hypochlorite-Carbonate Mixtures." A. Rius and V. Arnal, of Zaragossa, Spain.

(25) "Simple Metallic Electrodes in the Potentiometric Titration of Acids and Bases." John O. Closs and Louis Kahlenberg, of the University of Wisconsin.

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Saturday (Continued)

(26) "Electrodeposition of Copper-Nickel Alloys." C. J. Welz, Cornell University.

(20) "Nickel Mirrors by the Nickel Carbonyl Method." Colin G. Fink and Walter G. King, Jr., of Columbia University.

1:00 P.M. Adjournment.

SPRING MEETING

MAY 27, 28, 29, 1929

TORONTO, CANADA

Electro-Magnetic Characteristics of Electro-chemical Processes.

The Newer Theories of Electrochemistry

Electrochemical Industries of Canada.

Modern Methods in Teaching Electrochemistry.

Manuscripts for the Spring Meeting are due at the Secretary's Office not later than March 15, 1929.

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HOTELS

	Single room without bath	Single room with bath	Double room with bath
Hotel Kanawha (Headquarters)	$2.00	$3.00-$5.00	$5.00-$7.00
Hotel Holley	2.00	3.00- 5.00	5.00- 7.00
Hotel Ruffner	2.00	2.50- 3.50	4.00- 6.00

LOCAL SECTIONS OF THE SOCIETY

Philadelphia Section

Frank Hodson, Chairman, Philadelphia, Pa.
A. D. Spillman, Sec'y-Treas. Philadelphia, Pa.

New York Section

Chas. L. Mantell, Chairman, New York City.
F. F. Farnsworth, Sec'y-Treas., New York City.

Pittsburgh Section

Chas. A. Styer, Chairman, Pittsburgh, Pa.
C. B. Gibson, Sec'y-Treas., Pittsburgh, Pa.

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R. R. Ridgway, Sec'y-Treas., Niagara Falls, N. Y.

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S. C. Langdon, Sec'y-Treas., Evanston, Ill.

Michigan Section

W. M. Phillips, Chairman, Detroit, Michigan.
Chas. H. Eldridge, Sec'y-Treas., Detroit, Michigan.

Entrance Fee $5.00. (Students are exempt from paying entrance fee.) Yearly Dues $8.00. Application blanks and any other information may be obtained from the Secretary. Each member receives the publications of the Society, in pamphlet form, containing the papers and discussions of the General Meetings of the Society. Members can obtain the bound volumes of the Transactions for an extra payment of $5.00 per year.

OFFICERS OF THE SOCIETY

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S. C. Lind, Minneapolis, Minn.

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TREASURER
Acheson Smith

SECRETARY
Colin G. Fink, Columbia University, New York City

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H. M. St. John, Secretary-Treasurer, 5938 Trumbull Ave., Detroit, Mich.

Electrodeposition Division

Duncan MacRae, Chairman, New York City.
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